

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P867203

Luminaire Tested: PRLX-2004-L-927-15L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-72)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2004-L-927-15L-G-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

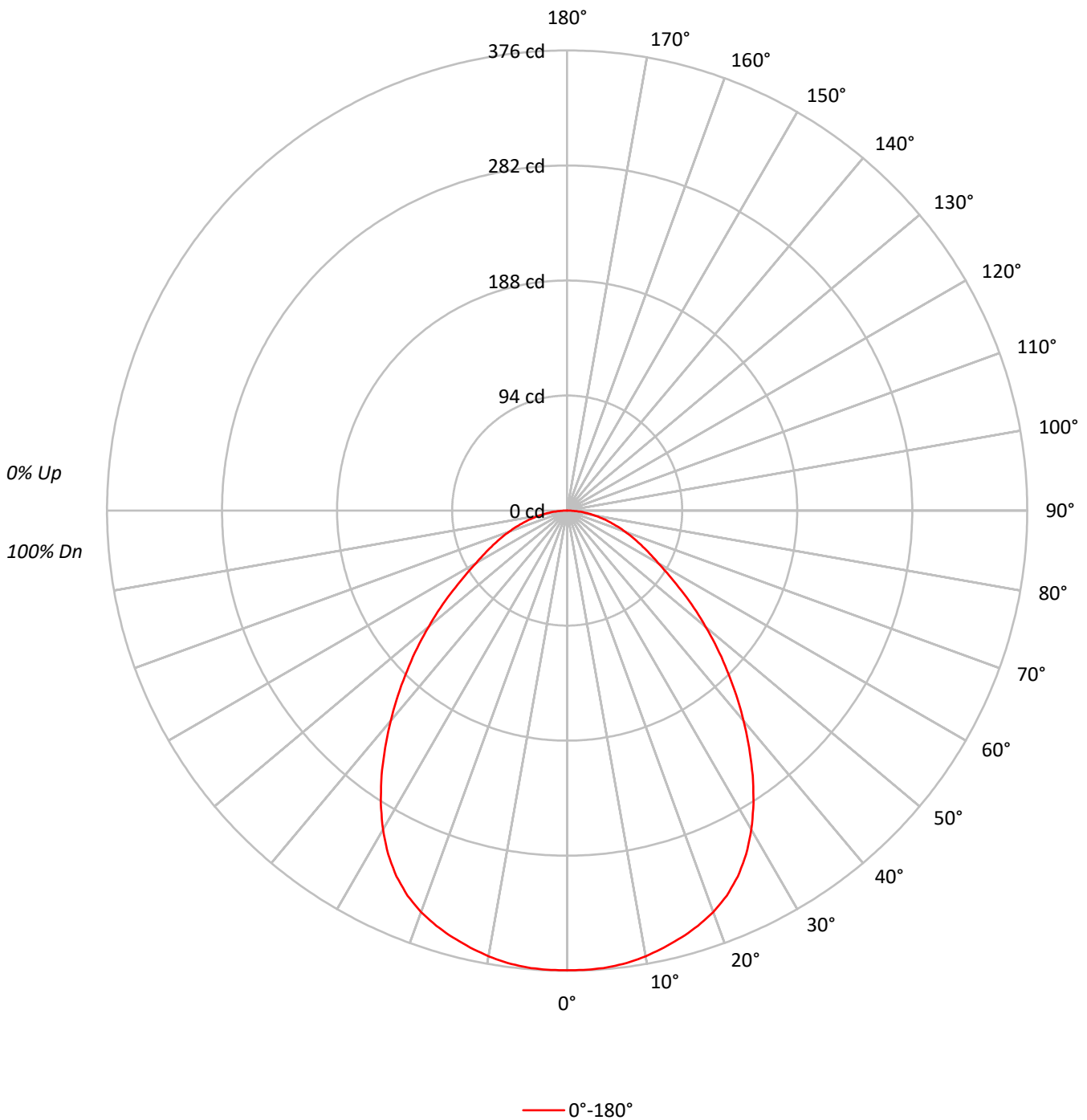
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 815.3 lumens  
Efficiency: N/A  
Efficacy: 49.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	32	42	36	31	41	35	31	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1853
5°	1856
10°	1853
15°	1844
20°	1833
25°	1796
30°	1715
35°	1592
40°	1445
45°	1290
50°	1134
55°	979
60°	849
65°	780
70°	727
75°	682
80°	645
85°	606

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1290 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.6	4.4
10°-20°	101.9	12.5
20°-30°	151.2	18.5
30°-40°	164.7	20.2
40°-50°	142.8	17.5
50°-60°	102.6	12.6
60°-70°	66.5	8.2
70°-80°	38.1	4.7
80°-90°	11.9	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	288.7	35.4
0°-40°	453.4	55.6
0°-60°	698.8	85.7
0°-90°	815.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	815.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	376	
5°	375	36
15°	361	102
25°	330	151
35°	264	165
45°	185	143
55°	114	103
65°	67	67
75°	36	38
85°	11	12
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	375.6
2.5°	375.6
5°	374.8
7.5°	372.9
10°	369.8
12.5°	365.7
15°	361.1
17.5°	355.7
20°	349.1
22.5°	340.7
25°	329.9
27.5°	316.7
30°	301.0
32.5°	283.3
35°	264.3
37.5°	244.3
40°	224.3
42.5°	204.6
45°	184.9
47.5°	166.2
50°	147.7
52.5°	130.6
55°	113.8
57.5°	98.6
60°	86.0
62.5°	75.8
65°	66.8
67.5°	58.2
70°	50.4
72.5°	42.9
75°	35.8
77.5°	29.1
80°	22.7
82.5°	16.6
85°	10.7
87.5°	5.2
90°	0.0

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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	10.90	12.40	11.26	12.71	13.02	10.90	12.40	11.26	12.71	13.02
	3H	12.41	13.75	12.78	14.08	14.44	12.41	13.75	12.78	14.08	14.44
	4H	13.01	14.27	13.41	14.62	15.00	13.01	14.27	13.41	14.62	15.00
	6H	13.48	14.65	13.90	15.02	15.41	13.48	14.65	13.90	15.02	15.41
	8H	13.65	14.76	14.08	15.15	15.55	13.65	14.76	14.08	15.15	15.55
	12H	13.78	14.84	14.21	15.22	15.65	13.78	14.84	14.21	15.22	15.65
4H	2H	11.40	12.66	11.80	13.01	13.39	11.40	12.66	11.80	13.01	13.39
	3H	13.15	14.19	13.56	14.59	15.00	13.15	14.19	13.56	14.59	15.00
	4H	13.88	14.83	14.32	15.24	15.68	13.88	14.83	14.32	15.24	15.68
	6H	14.50	15.32	14.96	15.76	16.22	14.50	15.32	14.96	15.76	16.22
	8H	14.72	15.49	15.19	15.94	16.40	14.72	15.49	15.19	15.94	16.40
	12H	14.90	15.58	15.38	16.06	16.53	14.90	15.58	15.38	16.06	16.53
8H	4H	14.16	14.93	14.62	15.37	15.84	14.16	14.93	14.62	15.37	15.84
	6H	14.91	15.54	15.41	16.04	16.51	14.91	15.54	15.41	16.04	16.51
	8H	15.22	15.79	15.73	16.30	16.79	15.22	15.79	15.73	16.30	16.79
	12H	15.48	15.98	15.99	16.48	17.04	15.48	15.98	15.99	16.48	17.04
12H	4H	14.19	14.87	14.67	15.35	15.82	14.19	14.87	14.67	15.35	15.82
	6H	14.96	15.54	15.48	16.05	16.53	14.96	15.54	15.48	16.05	16.53
	8H	15.33	15.84	15.84	16.33	16.90	15.33	15.84	15.84	16.33	16.90